

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: cfb@novum.com
Subject: RE: "How to Repair Old-Time Radios" (1979)
Message-ID: <Chameleon.960319114945.cfb@net.indra.com>

I'm looking for information about the following book:

"How to Repair Old-Time Radios" (1979)
By Clayton L. Hallmark
TAB Books, PA
Copyright 1979, First Edition
Fine condition, Paper cover, tight, cover creased in two locations
5" x 8.25", 249 pages
\$11.25 ppd

Charles F. Bacon
cfb@novum.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: 3579.545 funzies
Message-ID: <9603191720.AA100277@csemail.cropsci.ncsu.edu>

Well, last night was good, an' mebbees tonight may be better, so.....

Grapple's ye yer tin cans, an' top's 'em on yer noggin. Readys ye yer
keys at the fore, an' stands ye byes the bye fer another fine watch
aboard the crackle an' din o' 200 metres an' down.....

QRG 3579.545
QTR 0300/0400/0500/0600UTC
CQ GB/BA CQ GB/BA DE yourcall yourcall K

Puts ye yer fine bottleburners a'stoked, an haves ye a fine time on watch.

73/ZUT DE NA4G/Bob
rdkeys@csemail.cropsci.ncsu.edu

* 73/ZUT TU/SU VA DE NA4G ``Boat Anchor Bob'', an ol' CW fart. *

* Morse has been in the family for over 100 years. *
* Morse radiotelegraphy (Spark/CW) has been in the family since 1914. *

* May you have fair winds and following seas on your watch at the key. *

p.s. With so many folks aboard both lists, surely there be a few more with glowbottles a'ready, an fingers a'nimble upon the ol' brass monkey.....

DE NA4G UP

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: John Shriver <jas@shiva.com>
Subject: 6146 trivia
Message-ID: <199603191433.JAA29587@shiva-dev.shiva.com>

I brought my RCA HB-3 6146 data sheets in to copy for Jay Miller.
Here's a few answers to questions that came up in the last few days.

1. The 6146A and 6146B had the RCA "Dark Heater" with 5-8 volt range. This makes it appear that the design change in the heater/cathode was intended to make the output fairly constant over a wide heater voltage range, for mobile applications. (The 6146B appears to be particularly intended for mobile service.)

The 6146B also has slightly lower filament current, 1.125 A as opposed to 1.25 A in all other versions.

2. The capacitances appear to be very consistent between the versions. The 6146, 6146A, and 6146W are 0.24 pF maximum grid #1 to plate, the 6146B is 0.22 pF maximum.

3. Of course, the big difference is the higher plate dissipation in the 6146B. No surprise there.

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: 6146 trivia
Message-ID: <9603191621.AA08451@syseng1.se.melpar.esys.com>

>1. The 6146A and 6146B had the RCA "Dark Heater" with 5-8 volt range.
>This makes it appear that the design change in the heater/cathode was
>intended to make the output fairly constant over a wide heater voltage
>range, for mobile applications. (The 6146B appears to be particularly
>intended for mobile service.)

Check some old QSTs from the era when the 6146A first came out and you'll no doubt find RCA ads touting the "new" 6146A for

mobile applications. I recall seeing the those ads.

>3. Of course, the big difference is the higher plate dissipation in
>the 6146B. No surprise there.

BTW, I used to run ('70s) P-P 6146As on 6 meters and P-P
6146Bs on 2 meters (the latter using the DeMaw design which appeared
in QST around 1972 or '73; the 6-meter unit was a variant on that
same design). They worked very nicely in linear or Class C
service.....

Paul, K4MSG

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: 6146 trivia
Message-ID: <9603191843.AA09228@nando.net.nando.net>

> BTW, I used to run ('70s) P-P 6146As on 6 meters and P-P
>6146Bs on 2 meters (the latter using the DeMaw design which appeared
>in QST around 1972 or '73; the 6-meter unit was a variant on that
>same design). They worked very nicely in linear or Class C
>service.....
>
> Paul, K4MSG

Hi Paul and gang. I had to throw my experience with the venerable 6146 in
here. I have (and still use) a Heathkit SB-500 2 meter transverter. It runs
a pair of 6146's in the PA. It works nicely, neutralizes FB, etc. with
6146A's...I have tried multiple pairs of 6146B's in the PA with no luck. It
won't neutralize, and does some really nasty stuff with the "B"'s. It'll
take off on it's own, and oscillate like mad.

On the other hand, 6146A's work like a charm, and are easy to neutralize. I
had another ham tell me that the 6146A's were better suited for VHF
applications, and that has held true in my transverter.

73 de Dave Hockaday WB4IU
wb4iuy@nando.net
QRP-L #307

<http://www.webbuild.com/~wb4iuy/teara.html>
<http://www.webbuild.com/~wb4iuy/>

<http://www.geocities.com/TheTropics/3212/>
<http://www.geocities.com/TheTropics/3489/>
<http://www.geocities.com/TheTropics/3341/>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: 6146 trivia
Message-ID: <9603191953.AA12368@nando.net.nando.net>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: 6146 trivia

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>6146Bs on 2 meters (the latter using the DeMaw design which appeared
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Hi Paul and gang. I had to throw my experience with the venerable 6146 in here. I have (and still use) a Heathkit SB-500 2 meter transverter. It runs a pair of 6146's in the PA. It works nicely, neutralizes FB, etc. with 6146A's...I have tried multiple pairs of 6146B's in the PA with no luck. It won't neutralize, and does some really nasty stuff with the "B"'s. It'll take off on it's own, and oscillate like mad.

On the other hand, 6146A's work like a charm, and are easy to neutralize. I had another ham tell me that the 6146A's were better suited for VHF applications, and that has held true in my transverter.

73 de Dave Hockaday WB4IUY
wb4iuy@nando.net
QRP-L #307

<http://www.webbuild.com/~wb4iuy/teara.html>
<http://www.webbuild.com/~wb4iuy/>
<http://www.geocities.com/TheTropics/3212/>
<http://www.geocities.com/TheTropics/3489/>
<http://www.geocities.com/TheTropics/3341/>

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: List Admin/Owner BoatAnchor Mail List <listtown@jackatak.theporch.com>
Subject: ADMINISTRIVIA: Subscriber List in Effect
Message-ID: <9603190738.aa16519@jackatak.theporch.com>

Gang-

The list is now set so that subscribers only may post...

I will resolve all the inevitable address problems as rapidly as I can, but I will be away from the list during the day... and will get to these things as soon as I get home each evening...

PLEASE BE PATIENT!!!!

If you have not yet sent your \$12 to Phil, there is still time, as I will not prune the list down until the end of the month, and the list still accepts new subscribers, who will be given a "free trial" for a reasonable length of time...

Phil's address, for contributions/subscriptions is:

Phillip Porch
4328 Estes Road
Nashville, TN 37215-3106

We can also take VISA MASTERCARD DISCOVER AMEX if you will FAX your card number with expiration date to:
(615) 889-6452

The charge will come from "The Bridal Path Wedding Chapel" (hardly a boatanchor place, but I call it home sometimes! ;^) where we have worked out a deal...

Again, our sincerest thanks for your interest in the BoatAnchors list and for being willing to contribute to help us keep it going.

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
listtown@jackatak.theporch.com ---- firebotl@jackatak.theporch.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Johnson_Dan@AAC.COM
Subject: Aer-O-Com automatic antenna tuner - pinout?
Message-ID: <9603190737.19765.aa@SMROUTER.AAC.COM>

I picked up what appears to be an automatic antenna tuner, or the business portion thereof. It has "fubar" penciled under the Jul 7, 81 inspection stamp, but I would like to see whether it can be fixed and resurrected FOR USE WITH TRUE BA TRANSMITTERS. (Whew, thought that date would put me at risk of open flame.) Otherwise, it's a goldmine of parts for a reengineered tuner of some kind.

The rowboat anchor is roughly a foot cubed with the following on the nameplate: "MODEL AAT AER-O-COM SER. NO. 4014" "ANTENNA TUNER TYPE 5-JTR". Another nameplate is missing but has "P/N AR6166A" scratched in. It's got a variometer (which looks gold plated), HV variable capacitor, a pair of DC motors and linkages to move everything, some other circuitry inside, and what looks like open T/R relays mounted on the front (cabinetry and covers are all missing).

This is a long shot, but does anyone have any information about this? Just the pinout for the round 1 1/4" connector (15 pins) would help. Otherwise, I'm going to try and resist the urge to cannibalize it long enough to figure out how it works.

73 de KC4EWT
Johnson_Dan@aac.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Phillip Porch <pporch@theporch.com>
Subject: another one
Message-ID: <Pine.AUX.3.91.960319105327.15285A-100000@uro.theporch.com>

This is another test to see if the subscription change is working correctly. This should not appear on the list.

--

Phillip P. Porch <pporch@uro.theporch.com> finger for pgp key

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: wb6zwc@ns.net
Subject: B+ hv wire lead
Message-ID: <2.2.16.19960319065631.107fe172@mail-1.ns.net>

I can report there is a critical shortage of wire that is suitable for rewiring transmitter B+ voltages. There no person or business that supplies or has wire of 14 gauge and can withstand 15kv.

The wire in my transmitter was made by Plastic Corp. and of course they are no longer in business.

Transmitter voltage of the sort we might work on is in the range of 2000 volts to 6000 volts. I find it hard to believe that we have to resort to stripped coax, spark plug wire, tv anode wire, and possibly, electron microscope wire.

These are dangerous voltages and keeping your hands in your pockets is not enough when the devil is loose in the cabinet. Some would say that is what fuses are for, but do they really work and in time. Do the fuses protect a leaky high voltage wire from spewing a little juice in and about the cabinet?

Come on---somebody must have some!!!

Richard wb6zwc@ns.net

Still looking for Bleeder

Resistors 7.5 K @ 160 Watts

& 575A's Hv rectifiers (toobs)

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: Jeffrey Herman <jherman@hawaii.edu>

Subject: Re: B+ hv wire lead

Message-ID: <Pine.SV4.3.91.960319053458.1517B-100000@uhunix5>

On Tue, 19 Mar 1996 wb6zwc@ns.net wrote:

> I can report there is a critical shortage of wire that is suitable for rewiring
> transmitter B+ voltages. There no person or business that supplies or has
> wire of 14 gauge and can withstand 15kv.

Does it have to be solid or stranded? If solid will be safe why not contact an electrical housing/building contractor and secure a few feet of wire from him? Or visit the linemen's office of your electric company...

Jeff NH6IL

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: wd4mgm@ix.netcom.com (CARL WHITAKER)

Subject: Re: B+ hv wire lead

Message-ID: <199603191611.IAA02639@ix3.ix.netcom.com>

wb6zwc wrote:

>I can report there is a critical shortage of wire that is suitable for
rewiring
>transmitter B+ voltages. There no person or business that supplies or
has
>wire of 14 gauge and can withstand 15kv.

>Come on---somebody must have some!!!

The latest Belden Master Catalogue lists on page 292, Special
Application, Test Prod Wire:

Trade (cat.) No. 8898
Size: 18 ga. stranded tinned copper
Working voltage: 10 KV
Breakdown Voltage: 29 KV
Insulation: Rubber, Red or Black, 90deg C rated

What more could you ask for? As for replacing 14 ga., I don't recall
any references to your original current requirements but as per the
NEC, @ 90deg C, 18 ga. is rated @ 18 amps, and even with derating for
up to 80deg C, it is still good for 7.38 amps! Is your power supply
capable of more then 7 amps of B+ ????

There may be other Belden special order items available but not in
their cat.

Belden products are available through most good electrical/electronics
distributors.

Hope this helps,

73's

Carl
WD4MGM

wd4mgm@ix.netcom.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: "L. Mark Pilant - MS": "ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENABLE.dec.com>
Subject: Re: B+ hv wire lead
Message-ID: <9603191657.AA26065@us2rmc.zko.dec.com>

Looking through my (last year's I think) Newark catalog, I see:

Rowe Industries, Inc./Talley Industries:

"R790 Super Tough" High voltage corona resistant wire. Type R790-6014, 14 AWG 60 kv, stock number 96F5251WA; \$427.80 per 100'.

"U.L. 3239" High voltage corona resistant wire.

Type R800-1514, 14 AWG 15 kv, stock number 96F5273WA; \$51.95 per 100'

Type R800-2514, 14 AWG 25 kv, stock number 96F5274WA; \$66.60 per 100'

Type R800-4014, 14 AWG 40 kv, stock number 96F5275WA; \$151.41 per 100'

Dearborn:

High voltage corona resistant wire.

Type 391440, 14AWG 10 kv, stock number 95F5478WA; \$156.72 per 100'

Type 391445, 14AWG 15 kv, stock number 37F2121WA; \$216.73 per 100'

Type 391462, 14AWG 25 kv, stock number 37F2122WA; \$257.70 per 100'

Type 391497, 14AWG 40 kv, stock number 37F3643WA; \$386.09 per 100'

There are probably others, but this should give you a start.

- Mark N1VQW

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: "Gable, Edward M" <emg@rfpo2.rfc.comm.harris.com>

Subject: RE: B+ hv wire lead

Message-ID: <314EF691@smtpgate.rfc.comm.harris.com>

<snip>

I can report there is a critical shortage of wire that is suitable for rewiring transmitter B+ voltages. There no person or business that supplies or has wire of 14 gauge and can withstand 15kv.

Come on---somebody must have some!!!

Richard wb6zwc@ns.net

<snip>

Hi Richard. I doubt you need 14 gauge wire for Xmtr B+. Current is probaly in range of 500 mA so around #20 is probably OK. The insulation is key. I use common test lead wire, #20, flexible and rated at 10 kV and available everywhere. Works for me !!

73, Ed K2MP @ Rochester <emg@rfc.comm.harris.com>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: Mark Gaidos <mark_gaidos@MENTORG.COM>

Subject: re: B+ hv wire lead
Message-ID: <314F1C5A.3CA8@wv.mentorg.com>

Richard wrote:

>I can report there is a critical shortage of wire that is suitable for >rewiring
>transmitter B+ voltages. There no person or business that supplies or > >has
wire of 14 gauge and can withstand 15kv.

I think high-voltage GTO used in neon sign work
should do it. It's
easily rated for 15 kv and is available in reels from
sign supply
houses.

Mark

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: B+ hv wire lead
Message-ID: <199603192341.KAA15309@vifp.monash.edu.au>

Hi Richard and the others,

> These are dangerous voltages and keeping your hands in your pockets is
not
> enough
> when the devil is loose in the cabinet. Some would say that is what fuses
> are for,
> but do they really work and in time. Do the fuses protect a leaky high
> voltage
> wire from spewing a little juice in and about the cabinet?

I certainly wouldn't trust a fuse especially where dangerous shocks are
concerned. By the time it blows it will probably be too late. An amazing
amount of energy can get through before enough heat is developed to melt
that wire!

I have twice now drilled into power cables (240 V) accidentally while
hanging pictures. In both cases the 5 amp fuse blew but not before enough
heat was developed to vaporize a chunk out of the hardened masonry bit I
was using.

I believe the 5 kv rating on RG8 refers to it with the braid grounded. For
short runs I have used it with the braid removed and the outer sheath
slipped back on giving 2 layers of insulation.

73

Morris VK3DOC
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: wb6zwc@ns.net
Subject: Re: B+ hv wire lead
Message-ID: <2.2.16.19960319172237.33671e88@mail-1.ns.net>

At 11:26 AM 3/19/96 -0600, you wrote:

>Looking through my (last year's I think) Newark catalog, I see:

>In the Los Angeles area: tel# 818-445-1420, 818-445-6841 fax>

>Rowe Industries, Inc./Talley Industries:

>

> "R790 Super Tough" High voltage corona resistant wire. Type R790-6014,
> 14 AWG 60 kv, stock number 96F5251WA; \$427.80 per 100'.

>

> "U.L. 3239" High voltage corona resistant wire.
> Type R800-1514, 14 AWG 15 kv, stock number 96F5273WA; \$51.95 per 100'
> Type R800-2514, 14 AWG 25 kv, stock number 96F5274WA; \$66.60 per 100'
> Type R800-4014, 14 AWG 40 kv, stock number 96F5275WA; \$151.41 per 100'

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>Dearborn:

>

> High voltage corona resistant wire.
> Type 391440, 14AWG 10 kv, stock number 95F5478WA; \$156.72 per 100'
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> Type 391462, 14AWG 25 kv, stock number 37F2122WA; \$257.70 per 100'
> Type 391497, 14AWG 40 kv, stock number 37F3643WA; \$386.09 per 100'

>

>

>There are probably others, but this should give you a start.

>

>- Mark N1VQW

>

>Hey Mark--thanks! The #14 is used throughout the transmitter. Collins most likely selected it for the max. current. It does handle the filament currents of the 4-400's.

But what is not so clear is why the price difference between manufactures of the same 15kv wire? It does not say this one is tough and this one is not. One think is for sure--I will not have to buy the very tough stuff on the top of the list.

Thanks for putting this up on the net. There have been others in the same spot as me.

I will make this my official thanks to all who took the time to communicate on the matter of B+ wire. There have been some interesting applications involving high voltage and different wire selections. Some are somewhat scary and some work perfectly well. There have been over fifty different responses.

Thanks to all

Richard wb6zwc@ns.net
Still looking for Bleeder
Resistors 7.5 K @ 160 Watts

& 575A's Hv rectifiers (toobs)

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: re: B+ hv wire lead
Message-ID: <960320021600_70401.134_IHD65-2@CompuServe.COM>

Yep! That was my suggestion! GT0-15 wire. really nice stuff, just didn't know where it came from!

73,
Sandy W5TVW

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: wd4mgm@ix.netcom.com (CARL WHITAKER)
Subject: Re: B+ hv wire lead (correction)
Message-ID: <199603191623.IAA13969@ix16.ix.netcom.com>

>NEC, @ 90deg C, 18 ga. is rated @ 18 amps, and even with derating for
>up to 80deg C, it is still good for 7.38 amps!

OOPS!

The NEC rating of 18 amps is @ 30deg C., not 90 deg.

Sorry, fingers faster than brain.

73's

Carl
WD4MGM

wd4mgm@ix.netcom.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: bill@texan.frco.com (William Hawkins)
Subject: Re: B+ hv wire lead (correction)
Message-ID: <9603191713.AA26335@texan.frco.com>

I suspect that 14 ga. is not required for current capacity so much as it is for lead dress. NO. 14 wire stays where you put it. I'd take some garden variety 600 volt wire and cover it with plastic tubing. No idea what insulation that provides, so I'd rely on closed covers and fuses for safety.

Somebody suggested trying a power company for HV wire. Not sure you could get anything as small as #14. :-)

Bill Hawkins

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Sandy Blaize <70401.134@compuserve.com>
Subject: Re: BA Music
Message-ID: <960319025920_70401.134_IHD94-4@CompuServe.COM>

Paul,

To get the REAL boatanchors sound, you need to play the 78 RPM versions! Wonder how they would sound on my old 1923 Sonora wind-em-up?

73 ;^)

Sandy W5TVW

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: paul Veltman <veltman@netcom.com>
Subject: Re: BA Music
Message-ID: <Pine.3.89.9603181912.A13053-01000000@netcom15>

> To get the REAL boatanchors sound, you need to play the 78 RPM
> versions! Wonder how they would sound on my old 1923 Sonora wind-em-up?

> 73 ;^)

I didn't know that there were 78 versions. The only version I've seen is the one that runs at 33 1/3 RPM

Paul

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: BA's on 3.579.545 Mcs..
Message-ID: <199603190345.WAA08665@raven.cybercomm.net>

Had a nice but short CW QSO with Chris Bowne (AJ1G) tonight at 0300z with his TCS 12...Plenty of QRM and QSB..I'm not sure what else Chris was using (it was a jungle out there)..I listened for other BA'ers and heard some stuff way down in the mess..will listen at 0400Z and then pull "The Big Switch"..I'm using my Viking Adventurer and Sp-600 with zepp..CQ BA...3.579.545 +/- Mcs.

73,
Steve, WA2NHZ

Looking for: 1. Johnson VF-122 VF0
2. BC696 / T-19 Command Xmtr

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Brian Summers <bsummers@dragon.achilles.net>
Subject: BC-348 Help Need
Message-ID: <m0tzBHi-00061PC@dragon.achilles.net>

Hi folks.

Thanks for all the suggestions to my request of 4th March. All carefully checked, plus lots of other ideas. No solution yet, but making significant progress. Most recent findings are:

1. With a 915 kHz (the intermediate frequency) unmodulated signal from a generator loosely coupled to the mixer grid, the demodulated audio, with BFO on, in MVC mode, is very stable when viewed on the scope. It's nice and

clean sounding to the ears. In this test the mixer is acting as a straight RF amplifier and the local oscillator serves no purpose.

2. Above test then repeated with the signal generator set to around 4 MHz and the receiver tuned to the same frequency. Now the audio has that side to side jitter on the scope (prob 60 Hz), and sounds a bit rough to the ears. In this test the 4 MHz input is getting mixed with the local oscillator to produce the 915 kHz IF.

3. Repeated step 2 above but with the mixer heater supplied with 6.3V DC vice AC. No change.

4. Repeated step 2 again, but this time with the oscillator heater fed from a DC supply. Jitter significantly reduced, although still some present. Audio sounds nice and clean. Indeed, I would say the audio is acceptable. In this circuit the oscillator tube cathode is grounded, so a heater cathode leak presumably doesn't mean anything. Anyway, I've tried two other tubes.

Well, seems like the problem is related to the L.O. circuitry. I've measured the tube voltages and circuit resistances as best I can via the topside of the tube socket. Also verified that the grounding leads and strap from the tuning cap are solid. Now we come to the next major hurdle (challenge?). It looks to be impossible to get at the bottom side of the tube socket, and most of the components, without removing the oscillator assembly from the chassis.

Looking at the rig it seems that I've got to remove the band change switch shaft from the right angle drive, then pull the shaft through the oscillator assembly before I can remove the assembly from the chassis. Then would come the challenge of putting it back again - I can imagine that getting the switch shaft back through the wafer when you can't even see it gives one the opportunity to damage the wafer. Definately an "I wish I hadn't done that" situation.

So, before proceeding too much further I thought I'd enquire if anyone out there has removed and replaced this assembly, and can provide some guidance.

Thanks all

Brian, VE3JKZ

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: "Richard L. Duell" <rduell@iac.net>
Subject: Cleaning Advice Needed
Message-ID: <199603190229.VAA02998@great-miami.iac.net>

I just picked up a Bunnell J-36 that needs a good cleaning. Of particular concern is the name plate. It's a thin metal plate with the lettering

raised/embossed above the surface. The background is painted black and is ok, but the lettering has surface rust. Question...anyone have any tricks to share re removing the rust without disturbing the paint? This has probably been covered here before but I don't remember seeing it.

Another...I bought a used ultrasonic cleaner (no instructions) with the idea that it would be good for cleaning up knobs and small parts. Is there any special elixir that anyone can recommend that works best with ultrasonic cleaning. I've just been using liquid soap, but that isn't giving the results I expected. Maybe I expected too much.

73, Rich - W5VDU

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Sandra L Knepper <slkst29++@pitt.edu>
Subject: Collins Homepage - WA3KEY

Superlatives just won't do to describe the new Collins homepage that was developed by WA3KEY. Beautiful graphics of the more popular Collins sets like 75A-4, KWS-1, KWM-380 etc. Information on mechanical filters, technical descriptions of the popular Collins ham radio line, and much more.

I unequivocally endorse this tremendous contribution to ham radio and Collins enthusiasts. Thank you, WA3KEY.

The address is as has been noted on an earlier post.

<http://www/users.fast.net/~WA3KEY/collins.html>.

Dave, W3BJZ
Publisher of the monthly Collins Journal

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Sandra L Knepper <slkst29++@pitt.edu>
Subject: Collins Homepage - WA3KEY (fwd)
Message-ID: <Pine.3.89.9603182318.A17468-01000000@unixs6.cis.pitt.edu>

----- Forwarded message -----
From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: don merz <71333.144@compuserve.com>

Subject: CQ K6ZSR de N3RHT

Message-ID: <960319220126_71333.144_DHB44-1@CompuServe.COM>

Michael Ferraro, K6ZSR, please contact me via e-mail ASAP.

Thanks.

Don, N3RHT

71333.144@compuserve.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: "Seifert, Rick" <rseifert@usia.gov>

Subject: Crosley help

Message-ID: <C6EF4E31013CD8D1@usia.gov>

Hello BA friends,

I wonder if one of you would be able to help a co-worker of mine locate a schematic for a Crosley model B-589-A . I do not have USENET access, so am unable to post to rec.radio.antiques.phono or similar newsgroups.

However, I know that if anyone has knowledge of Crosley receivers, you folks do :-)

Any help appreciated.

Regards,

Rick

Rick Seifert

Office of Cuba Broadcasting

Engineering Supervisor

Radio Marti Technical Operations

Washington, D.C. 20547

rseifert@usia.gov

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996

From: Mikhael Brown <mikhael@hpcmmmp13.sj.hp.com>

Subject: Elements of Radio

Message-ID: <199603191414.AA149134855@hpcmmmp13.sj.hp.com>

Hello Gang,

I just checked my books and have a 2nd edition, 1948, of this great book. Does anyone have the 3rd edition and between us we should have them all. I remember that between one of my friends and myself we

kept the library copy checked out pretty much continuously through early High School at least. I found a copy at a flea market several years ago and couldn't pass it by.

Mike N6WIG

--

mikhael@hpcmpp13.sj.hp.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: jlyle@netcom.com (Jim Lyle)

Subject: Re: Elements of Radio

Message-ID: <199603191630.IAA09346@netcom4.netcom.com>

> I just checked my books and have a 2nd edition, 1948, of this great
> book. Does anyone have the 3rd edition and between us we should have
> them all. I remember that between one of my friends and myself we
> kept the library copy checked out pretty much continuously through
> early High School at least. I found a copy at a flea market several
> years ago and couldn't pass it by.

>

> Mike N6WIG

>

I have a third AND a fourth edition (published in '59). Good books!
I think I may have picked up another copy on my recent trip to Milwaukee,
but those books (I had them shipped) haven't been delivered yet, so I
can't make sure

--

Jim Lyle jlyle@netcom.COM

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996

From: Gary Mitchelson <garym@cais.cais.com>

Subject: FS: R390A

Message-ID: <199603200057.TAA28075@cais.cais.com>

-- [From: Gary Mitchelson * EMC.Ver #2.5.02] --

It had to come to this. It seems that my wife will tolerate 1 R390A but not
the 2

I just came into possessions of.

The one I want to sell off is a Collins from the 14214-PH-51 contract.

I have not powered it up but it looks in very good condition. It can use a good cleaning however. The front panel looks great, it has 2 very minor scratches and a small nick but 4 of the 8 screw holes look like they only saw a screw once.

It has both meters, gear train cover w/ diagram and a top cover.

It is missing the following minor parts:

Cover that goes over the mechanical filters

Cover for Z503

2 Crystals (14 & 17 Mhz)

A roll pin from two of the gears (a piece of wire is in their place)

1 regulator tube

Other than that it is complete. It is probably in much better condition than what you would expect from Fair Radio or other surplus dealers.

I don't have a firm price in mind, am and not sure what a Collins from the first contract is worth, so I am open to offers.

Shipping is additional.

--

Gary Mitchelson

N3JPU

garym@racalrecord.com

Racal Recorders, Inc.

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996

From: launerb@crl.com (William H. Launer)

Subject: Fuses/HV Safety

Message-ID: <v01520d0cad75129ff4e8@[192.0.2.1]>

Hi, Gang

Most of my design activity in the Aerospace industry involved in power and power distribution systems. One of the most difficult concepts for the Avionics designers to understand was that the basic purpose of a fuse (or circuit breaker) is to protect the wire, not the equipment.

According to the "Design Manual on Aircraft Electrical Installations" (AIA, 1958):

"Overload Characteristics of Fuses: The inverse-time or overload characteristics of fuses generally differ from the thermal overload characteristics of electric equipment; because fuses are seldom

located or designed to respond ideally to changes in the ambient temperature of the electric equipment, they do not provide good equipment protection. Generally they can provide only short-circuit protection, and if some degree of equipment protection is desired they will be selected to over-protect the electric wire."

A typical "fast-blow" fuse will carry 135% of rated current for up to 3600 seconds before opening. It takes 300% of rated current to cause instantaneous opening. A "slow-blow" fuse will carry 135% of rated current for up to 3600 seconds before opening, and takes 300% of rated current for 6 seconds (minimum) to cause instantaneous opening.

Since we normally put the fuses on the primary side of a power transformer (especially in HV supplies), and the output filters have large capacitors, which can act as nearly infinite current sources, NEVER expect a fuse to protect you from shock (or worse!).

While the dangers of high voltage are well known, low voltage, high current, power supplies can also be hazardous; while you won't be shocked by 12 or 28 vdc, be cautious and don't wear rings or watches when you might get in contact with them - the resulting burns can be nasty!

Safety first!

73, Bill wb0cld

Bill Launer
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arci #3551

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: rdkeys@csemail.cropsci.ncsu.edu
Subject: Re: Glowbuggite/Boatanchorite 3579.545 funzies
Message-ID: <9603191558.AA101123@csemail.cropsci.ncsu.edu>

>
> Had a nice but short CW QSO with Chris Bowne (AJ1G) tonight
> at 0300z with his TCS 12...Plenty of QRM and QSB..I'm not sure
> what else Chris was using (it was a jungle out there)..I listened
> for other BA'ers and heard some stuff way down in the mess..will
> listen at 0400Z and then pull "The Big Switch"..I'm using my Viking
> Adventurer and Sp-600 with zepp..CQ BA...3.579.545 +/- Mcs.
>

> 73,
> Steve, WA2NHZ

Steve..... and the other 4 folks who made the QRG/QTR/QSO

Sandy's Viking 500 was a real barnburner, even through the QRN.
Conard's TCS was solid, but a tad weak in the QRN.
My HW-16, was.....well, marginal.

It was GREAT to work 5 fellers on the TV rock QRG last night.
I have not had such fun in a long time. The band was very noisy
with thunderstorms about locally, so I had a devil of a time getting
solid copy, but for the most part it was quite good. The best times
were later at night --- 0600Z (late for this ol' pfarte). My HW-16 was
in good form, although the receiver on that beast leaves a lot to be
desired. Several folks have commented that the 3579.545 seems to be
a good QRG, even though W1AW is close and there is a tendency for
some packet racket there. The TV rocks work quite well in the HW-16,
and should do yeoman service in most standard xtal oscillator rigs.

Glad you fellers could make the watch. Now if we can just get the lead
out of some of the remainder of the crew, and make it a regular nightly
feature.....(:+}}.....

TU/SU/73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Glowbuggite/Boatanchorite 3579.545 funzies
Message-ID: <Pine.SV4.3.91.960319085715.11662B-100000@uhunix5>

Much of the QRM you hear on 3579 kc is from the XYL's or neighbor's
color TV. Too bad folks just don't read books anymore for entertain-
ment so we could have a quiet frequency to play on!

Jeff NH6IL

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: David Adams <dave@flowserver.stem.com>
Subject: HA-5 needed
Message-ID: <9603192314.AA12493@flowserver.stem.com>

Greetings! I'm looking for a vfo for myh halli ht-40 and the
HA-5 was suggested as the best option. Also, did halli make a

t/r switch or should I just whip one together?

Dave

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Chuck Grandgent <k1om@world.std.com>
Subject: Hallicrafters Super Skyrider ?
Message-ID: <199603190509.AA24340@world.std.com>

Just got this thing yesterday, and will be getting manuals and fixing it up, but just HAVE to know just a little about it, like what year might it be ? From ARC ads looks like it's also known as SX-16, though can't see that anywhere on it.

Thanks,

-Chuck, K10M

Chuck Grandgent, VideoServer Inc., Lexington, Massachusetts
k1om@world.std.com CIS:72330,450
(+1)617-863-2300 fax:(+1)617-862-2833
<http://world.std.com/~k1om>

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Charles Mann <mannnc@idirect.com>
Subject: Hammarlund HQ-145 parts needed
Message-ID: <199603200032.TAA17916@lucid.idirect.com>

Hi gang, I picked up a real nice looking HQ-145 at a flea market this weekend.

Both IF transformers (T7 and T8) are broken. Would anyone out there have a parts unit and be willing to part with these things to help out a beginner?

This radio just looks to good not to fix!

Will pay a reasonable amount.

73's

Charles Mann
mannnc@idirect.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: lblaske@pclink.com (Lee Blaske)
Subject: Heath SB-301 crystals needed
Message-ID: <v02130500ad747b09f7a6@[204.72.134.22]>

I just got the newly repainted cases for a SB-301/401 combo that I'm restoring back from Ron Eisenbrey. He sure does great work!

Anyway, I still need two crystals for the SB-301 to get everything back on track. I can't imagine why they were ever removed.

The two crystals needed are:

3393.6 lower sideband crystal
100 khz crystal calibrator crystal

By any chance, does anyone have these?

73's,

Lee AA0EF

Lee Blaske 73 de AA0EF

Keynote Music

lblaske@pclink.com

Deephaven, Minnesota

"When he who hears doesn't understand him who speaks, and when he who speaks doesn't know what he himself means -- that is philosophy."

-Voltaire-

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: kb0qil@kb0qil-uhf.ampr.org
Subject: help with an HP 608D ??
Message-ID: <2210@kb0qil.ampr.org>

All, de Dan

I have an HP 608D. I am trying to raise the upper freq from 422 to 452. I have the covers off and after tinkering can get to 440 with good signal strength.

The question relates to the osc. 'coils' on both the osc. and amp. sections. Intuition says spreading the 'loops' should raise the freq. (lower inductance). The opposite occurs. Spreading lowers freq, while compressing raises it. What is going on?? Should I replace the loop with a shorter one??

Thank you all in advance.

73's Dan

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Marco Bruno <spin@inrete.it>
Subject: Re: help with an HP 608D ??
Message-ID: <9603192246.AA05411@inrete.it>

At 13.39 19/03/96 -0600, you wrote:

>All, de Dan

>

>I have an HP 608D. I am trying to raise the upper freq from 422 to 452.

>I have the covers off and after tinkering can get to 440 with good

>signal strength.

>

>The question relates to the osc. 'coils' on both the osc. and amp. sections.

>Intuition says spreading the 'loops' should raise the freq. (lower inductance).

>The opposite occurs. Spreading lowers freq, while compressing raises it.

>What is going on?? Should I replace the loop with a shorter one??

>

>Thank you all in advance.

>

>73's Dan

>

Hi Dan:

when you squeeze the loop you decrease its area, so the inductance. If you squeeze a multi-turn inductor you 'compress' the magnetic field, so increase the inductance. But this is not a multi-turn.

Shortening the loop is OK, the Q is higher than a squeezed-loop ;-)

73 - Marco - IK10D0

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: m_mcdonald@marx.ENET.dec.com
Subject: RE: high voltage B+ wire needed
Message-ID: <9603191819.AA17107@us4rnc.pko.dec.com>

Richard, wb6zwc@ns.net, says:

> I can report there is a critical shortage of wire that is suitable
> for rewiring transmitter B+ voltages. There no person or business
> that supplies or has wire of 14 gauge and can withstand 15kv.

Do you really need 14-gauge wire to handle the current flowing at 15Kv?

I suggest going to your local NAPA auto parts store and asking for their rolls of *metal core* spark plug wire made by Belden. They have it in 7mm and 8mm diameters. The 7mm has a gray cover (number 2085?) and the 8mm has a blue cover. Perhaps they'll give you an inch and you can remove the last 1/4" or so of insulation to look at the metal core; then you can decide if it'll handle the B+ current.

What about going to a local radio station and asking the engineers there about their sources of wire to make high-voltage repairs with?

I can only encourage you to be *very careful* when working with high voltage. If other Boatanchorites think there's a problem with my advice, speak up!

<snip>

Marll McDonald KB1AGM
m_mcdonald@marx.enet.dec.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Andy Howard WA4KCY <102452.362@compuserve.com>
Subject: Re: High voltage wire for B+
Message-ID: <960319203148_102452.362_DHT74-1@CompuServe.COM>

Ladies and Gentlemen of the List:

To end the speculation on wire for high voltage I would add this. I have two KW transmitters that I have built and both use the same kind of wire. It is Number 20 rate at 40KV. On the 813 transmitter I run 2000 volts at 500 ma. This transmitter has been on the air for 7 years with no problems. On the 4-125A transmitter I run 300 ma. at 2500 volts. Same scenario - no problems at all. Of course I would not want to run 5 amps at 5000 volts through this wire but we cannot run that much power anyway.

I was very fortunate a few years ago to find a fellow that had a very large

spool of it. Made by Belden I think. He was selling it for 8 cents a foot. Wish I had bought the whole roll at that time. I have a small amount left for that one last transmitter than I am contemplating building.

Hope that this first-hand experience is helpful.

Regards,

Andy Howard, WA4KCY
AMI #9

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dale Braun <dale.k.braun@uwrf.edu>
Subject: High Voltage Wiring
Message-ID: <s14eceb8.047@adngate.adn.uwrf.edu>

This thread on the availability of high voltage wiring is great. I've used Belden test lead wire and RG-8. Recently a friend gave me the end of a roll of special wire used in lasers. He works for a laser machining outfit where they actually construct the lasers. It has a fairly good sized inner conductor, I'd say #18 or #20 and is rated at 30KV. The whole wire is about 3/16" in diameter. Perhaps a call to a laser machining company's purchasing officer might lead one to a source.

For what it's worth ...
73,
Dale
WD9GWH
Dale.K.Braun@uwrf.edu

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: David Metz <metzd@cfw.com>
Subject: Hollow State Newsletter/R390A's
Message-ID: <9603200131.AA29805@milo.cfw.com>

Dale Hagert has suggested I post something about the Hollow State Newsletter and the fabulous info contained therein about the R390A's and other classic BA's such as the 51J4, SP600 and other fine receivers.

A group formed in Spring of 1983 that initially was called the R390A users group and published a newsletter on an intermittent basis. Presently , it is up to #36 and all back issues are available from:

Ralph Sanserino
P.O. Box 1831
Perris, Ca. 92572-1831

for the princely sum of \$1 each plus an additional buck for the 9 page index making your investment a cool \$37 ppd.

The subscription price is \$5 for 4 issues published 2-3 times per year.

While Boatanchors is a fantastic deal, the above is about the best 1 inch of paper you could ever buy for \$37.

While initially mostly geared to the R390's it has expanded greatly .

"Originally created by a group of R390 users, HSN has expanded to include industrial, military and consumer grade receivers by Collins, Hammarlund, National, Hallicrafters and others. HSN includes tips, mods, alignment and restoration advice..."

I can testify from personal experience that you will not find a better alignment procedure for the R390A than in issue #34.

Try it you'll like it!

73's dave metzd@cfw.com

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: How much should I pay for SX42 ???
Message-ID: <199603200504.AAA13137@raven.cybercomm.net>

Hi Gang,
I will be looking at a SX42 this week..It is supposed to be in OK working condition (whatever that means) and in good original cosmetic shape with no holes and all correct knobs (whatever that means)..What range should I expect to pay for it in the above condition if the seller was not abusing his medication :0}

Thanks,
Steve, WA2NHZ

Looking for: 1. Johnson VF-122 VFO
2. BC696 / T-19 Command Xmtr

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Johnson_Dan@AAC.COM
Subject: How to Blow Up a Radio
Message-ID: <9603200722.19765.aa@SMROUTER.AAC.COM>

Howdy again, Bob,

Well, I believe I've discovered The Problem with the DX-60, in which the function switch started making the transmitter die. I had gotten it from a local ham whose father had built it and, because it seemed to work fine on CW, just never gave it a good inspection. Even a bad one would have uncovered this...

Pins 4 and 5, the filament, of the 12AX7 audio amp were *soldered together*, as in an enormous and apparently accidental solder bridge. (Guess that's why a quick experiment a while back with AM into a dummy load resulted in such awful audio.) While removing the bridge, I noticed that the wire from pin 5, nestled in the nearby bundle of wires, was wrapped entirely in electrical tape. This was hidden inside the electrical tape used to "dress" the bundle. Removing the outer tape revealed that the insulation on the individually wrapped wire had just about exploded, and several other wires had their insulation softened somewhat.

So, before this DX-60 ever sees an antenna again, I guess I have a bunch of wires to replace. This also explains the mysterious message written on the schematic in pencil: "never again".

Until now, I thought I was just lucky that the "flame test" on new BA acquisitions hadn't resulted in disasters. It's time to rethink that approach. I have learned some important lessons:

- Never again will I power up a new acquisition without at least giving it a thorough visual inspection.

- Never again will I assume that a used radio is okay just because it "works", particularly one assembled from a kit.
- Never again will I ignore an unexplained problem in a radio (the rotten AM) but instead hear its whisper and ask it the necessary questions.
- A magnifying glass is an essential diagnostic instrument. Not only does it make things appear bigger, but it helps focus one's attention in a sea of details.

I'm just glad I didn't blow up the transmitter again - or worse!

Bob, if you encounter anyone again as stupid as I was, feel free to share my story with them. Actually, I'll copy BA on this - there's gotta be someone out there who thinks like I used to.

73 de KC4EWT
Johnson_Dan@aac.com

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: HQ-170A-VHF Resurrection
Message-ID: <UPMAIL03.199603200234390298@msn.com>

Phil Mills and the list.

Phil , this past weekend I got the HQ-170A cleaned up real good and attempted to align. Had to modify my sig gen for the 60 KC IFs, and then went thru the 455's and lastly the 3rd 3035KC. I was in a rush because of wife and when finished the dam thing would not select upper or lower sideband signals without garble on all bands. I heard nothing on 6 or 2 meters, etc.

Well tonight after work, I just took my time and started from scratch again and realized I had put the Slot Filter in its center position originally, The manual doesn't say but I turned it into full mesh (i.e. - or + 5 kc) peeked the 60KC's and then went to the 455KC's and noticed a lower slug stuck in place on one of the transformers. I left it that way to avoid breakage and peaked the rest with a lightly couple signal from the generator. Touched up the 3035KC IF transformers and hooked an antenna to it.

Camain Islands, and everyone in the States answering him on 20, What a difference. And I actually can get strong signals on 6 and 2AM of course.

I am totally sold on Hammurlands and Thanks for the trade.

Now I just wish I could get a new S-meter and Clock face and get the case painted to match the rest.

Al Fritsche
fritsche@msn.com

BTW, When you were over you didn't notice I had a R-46 speaker that would mate with The SX-101 trade. If you want it, give me a call. (\$35.00)
713-937-6044

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: ellope@isns1.shasta.com (jerry+deb)
Subject: HV WIRE
Message-ID: <199603191742.JAA16882@isns1.shasta.com>

Hi all, I am responding to listings on HV wire. Here is what I done in the past. Look in your phone book under neon signs they will have HV wire. The wire i got is #14 rated @ I think 50000 volts there is lots of insulation on this wire simmilar to rg8. I have used this wire in many deferent projects and it has worked very well.
jerry

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: johnmb <johnmb@nando.net>
Subject: Re: HV WIRE
Message-ID: <Pine.SUN.3.91.960319131239.11133C-100000@bessel.nando.net>

I believe that the inner conductor or RG/8 can withstand a pretty hefty potential...
/john

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dave Heil <k8mn@clinet.fi>
Subject: HV Wire Yet Again
Message-ID: <314F038C.45DD@clinet.fi>

Most electrical and electronic distributors sell spools (25 feet or so) of test probe wire. They normally stock rubber covered high voltage wire as well.

Dave OH2/K8MN
downtown Helsingi

k8mn@clinet.fi

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: jmlckwd@mindspring.com (Max Lockwood)
Subject: Re: Kennehooooooooochie hamfest report
Message-ID: <199603190146.UAA13841@borg.mindspring.com>

At 11:09 AM 3/18/96 -0500, Larry Keith wrote:

>

>

>And, he wouldn't buy the beautiful TS-382/U Audio Generator that I had
>for sale... Seemed to have some aversion to carrying it back to
>California as "carry on" baggage. Heck, the carrying case even has
>handles!

>

Beautiful it is. However, there is a *reason* it has handles on each
end...all boxed up, this sucker is BIG.

And I can just see me trying to store it safely in the overhead bin or under
the seat in front of me.

>And, I
>think there was a Heathkit transverter that a couple of us were
>scratching our heads about..

You are right. It was an SB-500 that looked complete, but dirty as I remember.

73,

Jim - km6nk/4

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: hagelin@magi.com (Richard Brisson)
Subject: Re: Looking for World War II Cryptographers
Message-ID: <199603200157.UAA22455@infoweb.magi.com>

Fellow Boatanchorites -

Here is a posting I just found in the sci.crypt newsgroup. I have a definite feeling that there may be a few of you who may be able to help.

>
>Pack McKibben (pack@future.atlcom.net) writes:
>> Seeking WWII cryptographers who were graduates of Pawling, NY school
>> with service in 1943-1945, especially those who served in the South
>> Atlantic Division. Thanks for any help in tracking down these "old"
>> friends...
>

73,

Richard.

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Message
Message-ID: <9603191937.AA11727@nando.net.nando.net>

Is anyone seeing my messages?

73 de Dave Hockaday WB4IUY
wb4iuy@nando.net
QRP-L #307

<http://www.webbuild.com/~wb4iuy/teara.html>
<http://www.webbuild.com/~wb4iuy/>
<http://www.geocities.com/TheTropics/3212/>
<http://www.geocities.com/TheTropics/3489/>
<http://www.geocities.com/TheTropics/3341/>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Message
Message-ID: <9603192038.AA14804@syseng1.se.melpar.esys.com>

Yes.

BTW, despite my best efforts, DeMaw's 6146B design for 2 meters exhibited the same flakiness you described. I controlled it by judicious juggling of the bias setting and tuning.

The 6-meter amp, which I built using the same basic configuration except it had 6146As and a "real coil," not a piece of plumbing, also worked just as you described: beautiful neutralization, stable, etc.

I wish I'd kept the 6-meter one.....I could use it now. Heck, maybe I'll just build another one.

73,

Paul, K4MSG

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: nielw@ix.netcom.com (Niel Wiegand)
Subject: National Radio Virtual Museum?
Message-ID: <199603190413.UAA09949@ix11.ix.netcom.com>

I just checked out WA3KEY's Virtual Collins Museum. Great work!

Is anyone doing a National Radio version? With 43 examples of National gear around the shack I can probably contribute a few photos and some information.

Niel - WA5VLZ

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Dave <72550.2274@compuserve.com>
Subject: NC-57 Knobs Needed
Message-ID: <960319141933_72550.2274_IHD81-1@CompuServe.COM>

Anyone have a junker NC-57 parts unit with knobs? I just aquired the same unit but it is missing some of the front panel knobs. Any help out there???

73's

Dave Hutchison KW9U

(Looking for an SX-100)

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Nina West <ninaw@u.washington.edu>

Subject: Need Manual for AN/URR-35

Message-ID: <Pine.A32.3.91j.960318213543.112108D@homer16.u.washington.edu>

I just received a first class copy of the AN/URR-13A manual from Robert Downs and discovered that the unit I have is probably an AN/URR-35 with a rack mount and label from a -13A. The biggest difference was in the tube lineup, here is what is in the unit that is on my bench:

V101 5654	V201 5654	V301 5931
V102 5654	V202 5654	V302 0B2
V103 5654	V203 5670	V303 0A2
V104 5654	V204 5654	
V105 5670	V205 5654	
V106 5670	V206 5726	
V107 5670	V207 5654	
V108 5654	V208 5726	
V109 5654	V209 5670	
	V210 6AK6	

The -13A manual calls out eight 9003s, two 6J6s, one 5670, five 6AK5Ws, one 6BA6, two 6AL6W, and one 6AK6.

My question is: Do I really have an AN/URR-35 and does anyone have a copy of a manual for it?

Thanks in Advance,

Fred Powell
c/o
ninaw@u.washington.edu

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996

From: "Bill Moore" <Bill_Moore@mevatec.com>

Subject: Pilot Radio and TV Co. BA ?

Message-ID: <9603192024.AA03510@uu2.psi.com>

Subject:

Time:23:38

OFFICE MEMO

Pilot Radio and TV Co. BA ?????

Date:3/15/96

everyone, Im sorry if this is a repost, but I never saw it come back in my mail.

Gentlemen

As some of you know I am a collector of Pilot radios among other things. As such, I never understood why there were no WWII BAs built by Pilot USA (at least I have never seen one). As BA were my first radio collecting interest as a child, a Pilot BA would round out my collecting desires. A few weeks ago I

spoke to an ex Pilot employee who said that Pilot did make BAs, but they were all bound for the far east and Russia as Lend lease sets. Too bad, acquiring one of these is probably out of the question.

However, not all is lost, I have come into some data recently that specifies that Pilot Radio Ltd in the UK built a TRF multiband reciever for the Royal Navy. I have heard there is a BA collector in NZ that has one, has any body seen one of these, had one, or have some information on it?

Thanks

PS I am always looking for Pilot radios and parts, in addition I have lots of parts if you need any.

Bill

Bill

PS Always looking for Pilot Radios and parts.

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: David Metz <metzd@cfw.com>
Subject: plug in coils//NON HRO's
Message-ID: <9603190339.AA32128@milo.cfw.com>

I have this set of plug in coils in a neat little dark red cardboard box(original) about 3"h,8"l,1" wide. It has 4 coil forms maybe 7/8" in diameter and a loop plug in that is maybe 3/16" diameter and 3" long. The coil forms are labeled:2-5MC, 5-11mc,11-27mc,27-65mc. I feel certain this is WWII vintage stuff as I have owned it since the early 60's and it came from the estate of a gentleman who started hamming in the early 30's . He had a lot of war surplus stuff and I never quite guessed what it was for. Additional information: on the outside of the box its labeled 65-180 mc and 100-250mc though the above coils do not reflect this frequency range and the center to center distance of the male plugs look to be about one inch.

If somebody knows what this is for and needs it, make me a nominal offer including shipping and its yours. This group truely reflects the ideals of ham radio even to us non-ticket holders! May Jack and Phil enjoy Tahiti in their spare time--all negative 20 hours per week! Thanks for making this possible.

73's dave metzd@cfw.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Re:plug in coils//NON HRO's
Message-ID: <A2585ZWFIDMWP4*/R=OUVAXA/R=A1/U=POST/@MHS.cats.ohiou.edu>

>The coil forms are labeled:2-5MC, 5-11mc,11-27mc,27-65mc. I feel certain
>this is WWII vintage stuff as I have owned it since the early 60's from
>the estate of a gentleman who started hamming in the early 30's

You've done a nice job of describing the coil set to a grid dip oscillator (GDO), a very useful tool even today. There are lots of interesting uses for this device described in various vintage QST magazines. Its most common use is to determine the resonant frequency of a non-powered LC circuit. I have a similar box and set of coils for my Heath GD-1. Somewhere I have an Eico of similar design without the coil set. Even without the coil set, a GDO is useful for checking crystals.

Check in your estate boxes for a small metal box with a meter, a dial scale connected to a variable capacitor, and probably only one tube inside with a selenium rectifier, and a place on one end to plug in those coils. That's the rest of the GDO.

73 and good luck,

Rich KB8TAD <rpost1@ohiou.edu>

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: David Metz <metzd@cfw.com>
Subject: Plug in coils/non HRO
Message-ID: <9603192231.AA29245@milo.cfw.com>

Thanks to all who responded to my request. The mystery is solved and they are on the way to Joe, K8FC. Best of all, he needs them and I didn't even know what they were until all the responses. I'll probably run into a GDO someday and wish I still had them!

Thanks to all

dave

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: R-392 B+ to the max!
Message-ID: <Pine.SUN.3.91.960319090008.27486B-100000@coyote.rain.org>

Was talking with George, K1ANX, last night. He mentioned that he'd run into one fella who runs 100 volts for B+ on his R-392! The guy did admit to frying a half-watt resistor in the metering circuit, but said he'd had no more problems after replacing it with a one-watt unit and that it's the most sensitive receiver he has.

Hmmmm.... A quick look at the schematic shows B+ to 4.7K to a 250-ohm pot and then to ground. Lessee now.... at 100V that would be about 20 mils yielding total dissipation around 2W, of which the 4.7K would have to absorb 95% or about 1.9W. Yup, I can see why that sucker would fry! Just don't see how the 1W unit doesn't go, too.

Along those same lines:

1. Both the 26A6 and 26C6 are rated for about 250V max B+; the 26A6 screen is 100V max. The 26A7 plate & screen, however, are rated for only 50V max. The 26D6 specs are similar to the 26A6 for max voltage. With the 26D6 screen tied directly to B+ in this receiver, as well as both the plate and screen of the 26A7, looks like somebody is headed for trouble using 100V for plate juice.
2. What about other things, like that audio transformer? It certainly can't be happy with that much juice loose. Wonder what its ratings are?

Seems to me that 50V is about the most you'd want to even think of running with this beast, unless you have an endless supply of 26D6 and 26A7 tubes. Even then, you'd still want to put a 2W unit in for R621 just to have a reasonable safety factor.

73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Walt Novinger <waltn@hooked.net>
Subject: Re: R390A Restoration
Message-ID: <314EDA32.DC3@hooked.net>

Lahlum Ross wrote:

>

> A while ago I asked the group about the R390A, and after many helpful responses
> decided to go ahead & get one. My "new" radio arrived at Chicago O'Hare Delta

..snip...

> extra 25Z5W's? The suspense is killing me. I am also considering poking a
> couple of 1N4007's into the sockets. Anybody feel that this would be a BAD
> idea? Of course I will still get the tubes, but this would at least let me
> continue...You can use diodes if you make sure to power-up in stages. Turn the
Function switch to Standby, wait 1 minute, then turn to AGC. This allows
the tubes to heat up in Standby mode before the B+ is applied. Be aware
that the diodes put more voltage on the filter caps and chokes than do
the original hollowstate rectifiers, so you'll be stressing the rest of
the set. I have had diodes in my R-390A for a couple of years, but
consider myself lucky...your mileage may vary.

Walt

--

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@hooked.net	wnovinger@shl.com
	CI\$: 73348,2015
http://www.hooked.net/users/waltn	

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Kevin Pease <hamradio@mm1001.theporch.com>
Subject: Re: R390A Restoration
Message-ID: <Pine.LNX.3.91.960319200534.12288A-1000000@mm1001.theporch.com>

On Tue, 19 Mar 1996, Walt Novinger wrote:

> that the diodes put more voltage on the filter caps and chokes than do
> the original hollowstate rectifiers, so you'll be stressing the rest of
> the set. I have had diodes in my R-390A for a couple of years, but
> consider myself lucky...your mileage may vary.
>

If you put a resistor equivalent to the rectifier tubes internal forward
resistance and rated for the appropriate power disipation the abouve
problem goes away.

Kevin Pease
WB0JZG Mount Juliet, TN.

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: "Lahlum Ross" <ross_lahlum@msmail.wes.mot.com>

Subject: RE: R390A Restoration
Message-ID: <9603200352.AA11501@kay.wes.mot.com>

On Tue, 19 Mar 1996, Walt Novinger wrote:

> that the diodes put more voltage on the filter caps and chokes than do
> the original hollowstate rectifiers, so you'll be stressing the rest of
> the set. I have had diodes in my R-390A for a couple of years, but
> consider myself lucky...your mileage may vary.
>

Then Kevin Pease wrote:

>If you put a resistor equivalent to the rectifier tubes internal forward
>resistance and rated for the appropriate power dissipation the above
>problem goes away.

That solves the voltage problem - but tube rectifiers still have a built-in
time delay while they warm up. How about a negative temp. coeff. thermistor?
Anybody know of any? Maybe this could be made into a plug-in tube
replacement...

Ross KB9JJR

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Dennis McLaughlin <DennisM2@ix.netcom.com>
Subject: Re: R390A Restoration, part2
Message-ID: <314F557F.5ACB@ix.netcom.com>

Lahlum Ross wrote:

>
> Well, several folks came back right away regarding the rectifier tubes. Sure
> enough, the shield holders were bent, and there were silicon diodes soldered in
> underneath. Furthermore, the B+ checked out OK at +207 v, and the

Lahlum,

I have a R390A built in the early sixties. I bought it from Toronto
Surplus two years ago. The 26Z5W rectifiers were missing. Two JAN 1N561
diodes were installed under the tube sockets. On the audio chassis a 220
Ohm 10W resistor was mounted between terminal #1 on L601 and a unused
pin on the XC606 cap socket. I think the wire from J619-9 and L601 was
moved to the unused pin on XC606. The high voltage leaves the cathodes
of the diodes goes through fuse F102 (1/4A) to the 220 Ohm resistor then
into L601.

On my R390A the dual cap C606 was leaking. I replaced it with 2 47uF
caps mounted in a old tube socket. I found that many of the carbon
resistors were well outside the 10% tolerance. I replaced 2 resistors

on the main frame chassis, 26 on the RF chassis, 4 on the second crystal oscillator, 13 on the IF chassis, and 15 on the AF chassis. One 5814A tube did not glow, three 5814A's had cathode to heater leakage. The line gain and local gain pots were about 10K unstead of 2.5K. The 500K limiter pot is open. The 200KHz calibration crystal also aged and could not zero beat with WWV.

I've fixed everything except the limiter pot. All of the RF and bypass caps checked out and seam to be reliable. I dissembled, cleaned and reassembled the gear train. Tri-Flow oil with teflon works great. Used bicycle grease on the cams.

After all of this I would recomend checking resistors, band selector, and bandwidth switches. What a super radio.

Have Fun
Dennis

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Ron Croucher/Ampol <Ron_Croucher@ampol.com.au>
Subject: R391/URR INFO PLEASE
Message-ID: <9603201757.AA4282@lytrefnotes3.lytref.ampol.com.au>

I have been offered a r391/urr serial no 188 in nice condx. with a spare if strip
AN ot is moving in three months and says he will part with it then .
Is it possible to get manuals etc. for this BA ,any help , info appreciated
as
this is a rare beastly down here . btw de vk4cro ron in brisbane

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: kf8at@detroit.ampr.org
Subject: Re: REF ATLAS - SWAN - CUBIC
Message-ID: <104@detroit.ampr.org>

There was also a blurb in page 10 of the April 1996 issue of Worldradio too.
Sounds just as bleak there as in QST. Too bad...

73,
Floyd,
KF8AT

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: dj@bllac.JPL.NASA.GOV (Dayton Jones)

Subject: Request for B&K 650 or 610 manuals
Message-ID: <199603192057.MAA14296@bllac.jpl.nasa.gov>

Anyone have a manual for the B&K 650 tube tester or the small B&K 610 test panel that came along with it? I picked these up at a swap meet last weekend for free (I know, you get what you pay for) and although the wood box is a disaster the guts appear to be complete and possibly restorable. Thanks for any info on these units.

Dayton Jones, NT6S
(dj@bllac.jpl.nasa.gov)

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: jcreid@CCGATE.HAC.COM
Subject: RF and oscillator coils
Message-ID: <9602198272.AA827294161@CCGATE.HAC.COM>

I'm thinking about some projects I'd like to tackle and both involve the use of oscillator and choke coils that are probably hard to find if they're even available at all. Does anyone have any info on designing coils? I've got a decent selection of wire and a Morris coil winder, but I'm uncertain as to how many pies would you want(need) to put on an RF choke to be usable. Oscillator coils I guess could be figured out by reverse engineering. If you know the value of the capacitor in the tank circuit, it should be easy to find value of the coil to get the thing to resonate. Am I crazy for trying to tackle this?

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Don Reaves <dr@cei.net>
Subject: Signal Corp Keyer
Message-ID: <Pine.LNX.3.91.960318233723.1132C-1000000@kc5jh.reaves.net>

I picked this unit out of a trailer full of Collins solid state boatanchor aircraft radios at a recent local hamfest. It is a Waters Conley Co. Keyer KY 127/GG, 1957 vintage, photocell driven osc/audio amp. Looks unused, clean, has original packing list and some spare parts in their original boxes. Has a tape rewinder built in the cover of the hinged housing. Green box, about 40 lbs. Included spare belt, set of spare tubes (5Y3, 6SL7, 6V6, 930), spare lamps, line cord, test report, packing list. It's missing spare fuses, allen wrench, spare spring, and TM's. The lubricant on the

mechanical parts is dried out.

Anyone have a tape? Is this of use to anyone? If not, I'll use the beautiful 6V6 amplifier section for an audio project.

Don Reaves KC5JH dr@cei.net
46 Arbor Oaks Drive
N. Little Rock, AR 72120

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Michael.J.Knudsen@att.com
Subject: Re: Signal Corp Keyer
Message-ID: <9603192227.AA07454@bock.ih.att.com>

I think you have the same type unit I got at the Elgin IL RadioFest last August. Big green box case, with rewinder in the lid? I think there is one more tube in there for the audio oscillator, keyed thru the 6L7 to the 6V6. Hmmm, you have 6SL7, you have a more modern chassis.

Don't recall if mine was by Waters-Conely. Interesting outfit -- located in upstate New York, they made wind-up portable acoustic phonos right up into WWII and maybe beyond. I have 2 or 3 of those and they sound really great, and don't eat batteries, just needles!

If you read this far, I should mention that I got a whole box of code tapes with my beast -- about 10 reels, maybe more. I got the thing working, more or less, and wonder if some club would like it for training hams. I was going to use it to work up to 20 WPM, but they made that multi-choice code test too easy, and now I'll just practice code on the air.

Maybe I could sell/trade/donate you a few reels, if they're the right type.
73, mike k aa9rg

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Morris Odell <morriso@vifp.monash.edu.au>
Subject: Re: SP600 Stability Problem Finally Solved
Message-ID: <199603190211.NAA06804@vifp.monash.edu.au>

Dear Mike es gang

> But please, could someone explain WHY a leakage resistance of "only" 10

> MOhm
> should cause gargling and instability? Is this cap in shunt with the
tuned
> LC,
> or just in series with the grid? Don't the latter usually have a shunt
> grid-leak resistor of a Meg or less anyway? (Sorry, my schematics are at
> home).

It doesn't take much leakage in an interstage coupling cap to upset bias conditions on the following grid.

Imagine the situation where the plate is a 200V, the coupling cap leaks at 10 megohms and the grid resistor is 1 meg. There will be a positive voltage of $200 \times 1/11 = 18$ volts superimposed on the grid of the following tube. More than enough to cause gargling and instability....

I had just this experience recently with mica caps. The following tube spent quite some time with extreme voltage conditions impressed upon it and yet worked perfectly when the problem was fixed.

73

Morris VK3DOC
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Marco Bruno <spin@inrete.it>
Subject: Re: SP600 Stability Problem Finally Solved
Message-ID: <9603192245.AA05380@inrete.it>

At 11.18 18/03/96 -0600, you wrote:

>Thanks to Grant for the story of finally finding the guilty
>party in his SP600. Reminds me of the leaky mica in my 129X years ago.
>
>But please, could someone explain WHY a leakage resistance of "only" 10 MOhm
>should cause gargling and instability? Is this cap in shunt with the tuned LC,
>or just in series with the grid? Don't the latter usually have a shunt
>grid-leak resistor of a Meg or less anyway? (Sorry, my schematics are at
home).
>
>I have some rx that gargle and otherwise don't sound right on the higher bands,
>and while I usually blame this on cathode-heater leakage, I'd like to
understand
>this other cause. Tnx es 73, mike k aa9rg
>
>

The leakage resistance may be NOT linear, that is, dependent on the voltage

on the component. Again, if the voltage is high enough the conduction may be by successive little discharges - now you have crackling noise.

73 - Marco IK10D0

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Re:Superskyriders
Message-ID: <01BB1517.4C79C360@juneau_130.dialups.ptialaska.net>

Hi Chuck and fans of Dead Beat Wobblers-

If you have the Hallicrafters manual on the Sx-16 you will recognize the reference in the salutation. If you need a copy of same, drop me your snail-mail address. If there are 11 tubes in there and a carrier level meter to left of big silver dial, you have an SX-16 (If it has a magic eye you have Sx-10/11). If there are 13 tubes and an ANL switch to right of 'Selectivity' you have an SX-17 (Sx-16 has word 'Expander' under bandspread knob and above 'broad-sharp'. Specify which model for diagram/manual copies.

With my recently acquired Sx-16 came an original 19 page promo brochure (pub.10/37) which includes illustrated parts placement pages . If anyone would like copy of same , drop s-mail address to my e-mail. Has excellent operating procedures.

By the way, Gary, these have 500 and 5000 ohm speaker outputs. You will need any Hallicrafters speaker through R46 (not R46A ,B) or a line to voice coil transformer (just like with R390/390A) from commercial sound installer pulls (it would be a shame to waste those push-pull 6V/L6s on the RShack xfrmr). Hi-Z phone jack is blocked (safe). Vintage cans recommended. I'm sure all BAerites know that the name Radio Shack was coined by Bill Halligan himself for a store he managed in Boston for Tobe Deutschmann. BTW-

I have approached Chuck Dachis re: Boatanchors members' purchase of the impending Hallicrafters book (to be published at \$30 'plus S&H'- hope we can do better-stay zerobeat for his comeback).

Jim Dillon WL7CMQ beadgal@ptialaska.net
Seeking Sx-9/10/11 Skyriders, other Magic Eye iron

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Chuck Grandgent <k1om@world.std.com>
Subject: Re:Superskyriders
Message-ID: <199603191323.AA27676@world.std.com>

** Reply to note from Jim Dillon <beadgal@ptialaska.net> 03/19/96 01:15am
-0600

> From: Jim Dillon <beadgal@ptialaska.net>
> To: Multiple recipients of list <boatanchors@theporch.com>
> Subject: Re:Superskyriders
> X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
> X-Comment: Amateur Radio Equipment Using Vacuum Tubes
> Content-Transfer-Encoding: 7bit
> Content-Type: text/plain; charset="us-ascii"
> Mime-Version: 1.0
>
> Hi Chuck and fans of Dead Beat Wobblers-
> If you have the Hallicrafters manual on the Sx-16 you will recognize the
> reference in the salutation. If you need a copy of same, drop me your snail-
> mail address. If there are 11 tubes in there and a carrier level meter to left
> of big silver dial, you have an SX-16

Yup, I gotta SX-16, though it does not say "Expander" under the bandspread.
All else you described matches SX-16 though...

Hi Jim,
Thanks for the great info (this email list is as happy a discovery as
the radio), what YEAR might this thing be ?

-Chuck

> (If it has a magic eye you have Sx-10/11).
> If there are 13 tubes and an ANL switch to right of 'Selectivity' you have an
> SX-17 (Sx-16 has word 'Expander' under bandspread knob and above
> 'broad-sharp').

Chuck Grandgent, VideoServer Inc., Lexington, Massachusetts
k1om@world.std.com CIS:72330,450
(+1)617-863-2300 fax:(+1)617-862-2833
<http://world.std.com/~k1om>

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Jim Dillon <beadgal@ptialaska.net>
Subject: Re: SX-28A Advice ..paging.....
Message-ID: <01BB1568.A57968C0@juneau_130.dialups.ptialaska.net>

...big kahoona major domo Elmer. And I'm not him.
I have two Skyrider -28s. Plain vanilla, no perm modules as in 28A that =

Bill retrieved lately in TX. I have never got mine tweaked to =
satisfaction; now is the time for the envelope, please (and hopefully it =
has better align procedure than in Hallicrafters 94X004 [which I will =
copy for you as a first step, Bill-give me your
snail-mail address])

Backgrounder: -28 is a better radio than just about anybody gives it =
credit
for. it is reasonably stable (good thing because of odd B+ bus voltages- =
you don't see VR tube mods much), nice quiet noise level with good =
sensitivity (to
15mc.) OK selectivity, Excellent AVC, and great noise limiter *if and =
when*

one can get the mutually interactive (3) i.f. amplifiers (with =
variable b/w
transformers), xtal filter (5 positions- 2phasing controls), Lamb =
Silencer (5
adjustments), the AVC amp (3 tweaks), the BFO, and the LO playing =
together
using the recommended suite of calibration instruments, which is...
a signal generator..... that's all folks..=20

Question- Has anyone attacked a -28 (or similar BA) with a sweep =
generator/scope and can offer us some hints/kinks? Particularly in =
regard to
optimizing the AVC and Noise Limiter (not to mention getting the i.f. =
centered onto the crystal).

If no other Elmer Fuddly comes forward, I will return with my less than
famous R390/ricebox method next week.

Meanwhile, Bill... Start with T2 (It is one immediately behind the =
crystal phasing control (most likely needs peaked top and bottom for =
excess b/w)

Clean (Deoxit) Selectivity sw especially.

I will check knob box....hope you have the Spoke Wheels for =
tuning/bandsread- I am short these! Good luck on the snakeskin- I use =
thick

Testors mil green mixed w/matte black and texture it with a piece of =
Naugahyde sprayed with silicon. Color matching is a real trick.

Does anyone have a -28A front-end alignment pages for Bill- I can send =
-28
plain vanilla which is o.k. for i.f./NL/AVC/xtal, but different =
front-end tweaks.

Halli folks see my post re:Superskyriders

Jim Dillon WL7CMQ beadgal@ptialaska.net

Seeking Magic Eye Skyriders (SX-9/10/11) and NC-100X/101X

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Walt Novinger <waltn@hooked.net>
Subject: Re: SX-28A Reclamation Advice

Message-ID: <314EDDA6.AB1@hooked.net>

Bill Sorsby wrote:

>

> Second, a previous owner seems to have added a front panel toggle switch for
> AC power. (Why do they do these things?) How was power switched
> originally? Was it on one of the gain controls? No knob markings indicate
> power, although there is a panel marking for the ALC control fully CCW
> indicating "OFF".

The power was switched by a SPST switch on the Tone control (upper left corner).

> Fourth, the front panel around the gain controls is worn and flaking off.
> Since the panel has etched markings through it like alligator skin I'm
> wondering whether it might be possible to get a reasonably good looking
> panel by simply "patch" painting the worn portions. Anybody tried this or
> have suggestions on panel finishing?

We just restored one of our SX-28As and refinished the front panel by first bead-blasting it, then spraying black automotive lacquer over a thin coat of primer. The letters were restored using a Sanford silver pen for all legends, and a Sanford red pen for the "Super Skyrider SX-28A" legend under the main tuning window. Looks purty!

>

--

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@hooked.net	wnovinger@shl.com
	CI\$: 73348,2015
http://www.hooked.net/users/waltn	

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996

From: Jim Dillon <beadgal@ptialaska.net>

Subject: Re: SX28A align advice

Message-ID: <01BB15CD.B0EE3220@juneau_115.dialups.ptialaska.net>

Hi Bill and Skyriders of Purple Ether-

(huh... Sounds like your alignment pages are diferent than mine, which =
are plain page nos.12-15. I'll send you mine (whole booklet total 38) =
and you send the different pages you have to me. As soon as we find =
someone who has

correct "RF and Osc Adjustment location and Alignment procedure" for a=20
-28A you will be set to begin the basic alignment.

The difference between SX-28 and SX-28A lies underneath the chassis in the RF compartment (10 screws). On the original -28, antenna, 1st and 2nd RF amp, and local osc are tweaked with the usual Hallicrafters = arrangement of trimmers tacked around and sometimes across wax impregnated slug tuned coils. Pretty messy, and lurking under this = impregnable mess are several paper caps (screen bypass, AVC) and resistors which = call out for R+R.=20

On the SX-28A each section of the RF/ Local Osc front-end is built into = a neat little permeability tuned module (Hammarlund style) which is even = removable for getting to fixed components underneath.

So the callouts of adjustments for the Sx-28 are not spatially oriented for the -28A. So it would be nice if someone comes up with -28A pages The alignment procedure is the same, but the location of the adjustments differs.

On the -28 the coil slugs are best left alone unless probing with a = brass/ ferrite ended diddlestick indicates that tracking can be improved. Then one starts carefully melting the wax. No problem on the -28A where the inductances were made to be adjusted.

I use an alignment procedure involving monitoring the sets local = oscillator on another radios accurate digital display (R390 or = aaarrrgggg...ricebox)

The challenge is to get the i.f. centered on the resonant freq. of the = Sx-28 crystal. Old way was to 'wobulate' the sig gen output freq until a peak = was found. This can be great fun when all the crystal phasing trimmers have=20 been diddled.=20

More on this when we get manual sections exchanged and a -28A adjustment = call-out found

Another good way is to look around for a sig gen that has a socket for a crystal. The -28A rock (and all Hallis before it) is socketed in. By = running the sig gen on *the* rock you hope you are right on, but this is often = not the case.

Jim Dillon beadgal@ptialaska.net
Seeking Magic Eye Skyriders/Chief and National NC100X=20

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: stever@cybercomm.net (Stephan Rashkin)
Subject: Re: The Collins Radio Microwave Radio Sextant
Message-ID: <199603190508.AAA12886@raven.cybercomm.net>

Michael A. Burke, mab@delphi.com wrote:

>

>P.S. No flames about Popular Electronics - it's the magazine I grew up with
> as a kid.

>

Carl and Jerry have been spotted with Elvis leaving Fair Radio
during meteor showers.. :0>

73,
Steve, WA2NHZ

Looking for: 1. Johnson VF-122 VF0
2. BC696 / T-19 Command Xmtr

Steve Rashkin, WA2NHZ
Howell, New Jersey

E-mail: stever@raven.cybercom.com

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Lrware@aol.com
Subject: Re: To restore or not to restore...
Message-ID: <960319205616_356290969@emout06.mail.aol.com>

>on Mon, Mar 18, PaulC@jax.se.continental.com wrote:

>

>> Personally, I wouldn't touch any FB-7 or SW-3 that was restored. The
nice,

>

>>original receivers are out there if you know how to look for them.

>

>What is the definition of "restoration"? I thought I was "restoring" my new
>old Collins R390A. Perhaps I'm not - all I really want to do is clean it up
>&

>get it working to spec.

>

>Ross, KB9JJR
>ross_lahlum@msmail.wes.mot.com

Oh boy, I didn't mean to start a "restoration" war...
In the case of the two National radios I reported on, a better discription appears to be in order: The SW-3 & FB-7 I saw were both immaculate versions of somebodys hard work (at least to my untrained eyes :-)
both looked factory "new", with NO dirt, dust, discoloration, etc. inside or out. Appeared to be correct old parts in each, cloth covered wire, etc. Everything looked perfect, down to hand rubbed hard wood finish on wood parts. I'm no expert on very old national equipment but these seemed to be the best looking examples of restoration "art" I've ever seen. Even the black "bakelite" (sp?) looked perfect.
Still trying to get over the "sticker shock." I was just wondering if they really sold that high in that condition? Are they that rare?
Since I've started to gather a few examples of National equipment to play with, a couple of really old units would of been nice.
BUT NOT \$1500 WORTH OF NICE!
-Larry Ware
lrware@aol.com

PS: still kicking myself for not buying the R390A at \$200 before the guy who grabbed it....

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: k1oik@ccsnet.com
Subject: Tube sale
Message-ID: <TCPSMTP.16.3.18.-12.47.4.2644608140.3412366@ccsnet.com>

Sealed in boxes but 5 years old two 4-250, make offer.
829B as above
866-a used
829B used.
8008 many of them, most used.
5R4 new in box but about 5 years old

Selling for my school where I work.

```
#=====#
| Burt Fisher | Teacher of video, broadcasting and electronics |
| Amateur call | South Dennis, Ma. (Cape Cod) |
| K10IK | If you sit on the fence, it is a pain in the butt |
#=====#
| k1oik@ccsnet.com |
#=====#
```

You cannot build a reputation on what you are going to do.
Henry Ford

=====
http://www.ccsnet.com
telnet://ccsnet.com
Cape Cod's Internet Address
=====

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: jcreid@CCGATE.HAC.COM
Subject: Variable caps needed
Message-ID: <9602198272.AA827273863@CCGATE.HAC.COM>

I was flipping through the 1947 Editors and Engineers handbook I just received from Don Merz and found a nifty transmitter for 80 & 40. It's based on a 6J5 oscillator and 6L6 PA. The article says it's good for 15W on 80 and about half that on 40. I think I have most of the parts except for a pair of 260 pf variable caps. Anyone got a couple in their junk box they'd like to part with?

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Michael Crestohl <mc@shore.net>
Subject: Virtual Collins Radio Museum Web Site.....
Message-ID: <199603190459.XAA27819@northshore.shore.net>

Hello One and All:

Found this on r.r.s and figured it might be worthy of your perusal:

rec.radio.swap
From: wa3key@fast.net
"Virtual Collins Radio Museum" web site
From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: TEK0CH@aol.com
Subject: WANTED - HRO-5 OR HRO-W SPEAKER & JF Coil
Message-ID: <960318223357_249449506@emout09.mail.aol.com>

I am looking for a matching speaker for the early HRO-5 or HRO-W.
I also need a JF coil for the HRO-W if you have an extra!

Tom Koch - W4UOC
8170 Habersham Waters Road

Dunwoody, GA 30350

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: RWAYNE@CTC.Net
Subject: Re:WERS
Message-ID: <01I2I0E05E5E8Z0G7W@InfoAve.Net>

The 1943 ARRL handbook has a good description of WERS.

WERS operation was allowed on the 112, 224, and 400 Mc. bands with a max power of 25 watts. WERS station licenses were issued to government entities (town, city, county,...). Operator permits were available to any FCC licensee.

The call signs were 4 letters followed by a subnumber (i.e. WJSY-8). All units in the local network used the same letters, but different numbers.

I have the WERS log of W4MR. The first entry was Jan 3, 1943 and the last was Nov, 1943. All of the entries were for test drills with other stations in the same net. The log entries started with 114 Mc. and the last few indicated 112 Mc. Some notations included "blackout drills". These tests were in Greensboro, NC. Power input for WJSY-8 (W4MR) was 20 watts.

73,
Richard W4CBG

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: TPHAACK@ccmail.monsanto.com
Subject: RE:WERS
Message-ID: <0016700001641961000002*@MHS>

Clark,

WERS stands for "War Emergency Radio Service". It was I guess the early Civil Defense radio net. I suspect it might have been the only way to participate in ham radio at the time. The handbook and magazines do describe other techniques in optics, sound, and controlled carrier if WERS was not your cup of tea.

I have several Abbott TR-4 units which were produced for operation in the 112MC range I believe. They are very simple regens. The Heathkit

lunchbox series were much more sophisticated! You can find ads for them in QST during that era. I think there was at least one other company that produced a WERS transceiver. Was it Millen maybe??

Tim WA0TSY
tphaak@ccmail.monsanto.com

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: RE:WERS
Message-ID: <Pine.SV4.3.91.960318213330.17513C-100000@uhunix5>

During those war years was there an accelerated effort to explore circuits and construction techniques for the very shortwaves (V/UHF)? I can't imagine the hams at home staying idle during that period. Our library's QST collection only goes back to 1960 otherwise I'd check out those war-years QSTs myself.

Jeffrey NH6IL (ex: WA6QIJ, WH6AEQ) (ex Coast Guard CW op at NMO)

SOWP, ZUT!, Oahu Civil Defense RACES

Heath DX-60B + HG-10; Galaxy GT-550; homebrew QRPP stuff

Licensed since '76.

From boatanchors@theporch.com Tue Mar 19 23:36:04 1996
From: Scott Townley <n timer7u@primenet.com>
Subject: What is...PL172 Tube?
Message-ID: <199603200348.UAA09079@usr5.primenet.com>

Help! I've obtained an RF deck which uses a PL172 tube. Is this the same thing as the ARRL Handbook's "172/8950" listing (1000W pentode)? My Eimac catalog also lists a 172 tube as a 1000W pentode, which looks strikingly similar to a 3CX1500A7/8877 tube.

And if so, anybody got a spare?

TIA,
Scott Townley
n timer7u@primenet.com

From boatanchors@theporch.com Tue Mar 19 16:46:26 1996
From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>
Subject: Wire
Message-ID: <9603191450.aa01300@FSAC3.PICA.ARMY.MIL>

RG 8 is good for 5000 volts DC

From boatanchors@theporch.com Tue Mar 19 10:25:24 1996
From: Terry Neal <tmneal@netcom.com>
Subject: WTB:Heath DX-100B
Message-ID: <2.2.16.19960318220920.253f3d0e@10.0.2.2>

I am looking for a Heathkit DX-100B xmitter. Hope to find one in the 11 western states. Note! the "B" version has the small trap door on the top of the cabinet. I have several parts dx-100's, I would like a really nice one if that is possible.

thank you so much

Terry aa6tn

tmneal@netcom.com
voice phone 714-546-9602